

From: Apakian, Mary
To: [Geiger, William](#)
Cc: [Bond, Christopher D.](#)
Subject: RE: Metal Bank Oversight Summary - May 13, 2016
Date: Monday, May 16, 2016 8:08:16 AM

Hi Will.

Below the summary of OS activities conducted by CDM Smith's Chris Bond on Friday, May 13, 2016. Chris Bond will be out at the site today to oversee the continuation of the rip rap placement. Please let me know if you have any questions.

Regards,

Mary Jo

Mary Jo Apakian | Project Manager | CDM Smith | 993 Old Eagle School Road, Suite 408 | Wayne, PA 19087 | Office: 610-263-2616 | Fax: 610-293-1920 | Mobile: 610-246-1832 | e-mail: apakianmj@cdmsmith.com

Date: May 13, 2016

Weather: Mostly Cloudy, Humid, Light Rain In The Afternoon, High of 70 degrees

Arrival/Departure Time: 700/1500

Tidal Source: 'Tides' iOS Mobile Application – Pompeston Creek, NJ

High Tide: 8:05 – 7.2 ft

Low Tide: 15:25 – 0.4 ft

CDM Smith Field Oversight: Christopher Bond

Other Personnel On Site:

- June Yeung – Ramboll Environ
- John Castellani – CEI
- Gary Kowalski - CEI
- Nicholas Steenhaut – Ramboll Environ

- **Rip Rap Placement:** CEI continued placing rip rap starting in the western part of Zone 2. They added volume and height (up to around 5.5 below the top of the sheet pile wall) to the area they had previously worked, but did not add any greater range today. They are still working from halfway between Targets D and E to one-third of the way between Targets E and F.

- **Turbidity Monitoring:** In the morning, CEI performed an inspection of the turbidity curtain that was covers the perimeter of Phase 1. They repaired the curtain in all the areas they found to be lacking. In accordance with Submittal #11, Creamer performed turbidity monitoring only twice today as they were continuing placement in Zone 2. The readings are listed in the table below:

Time (hours):	0822	1312
Up Tide (NTU) :	137.5	121.3
Down Tide (NTU):	127.13	113.7
Intermediate Up Tide (NTU):	132.17	123.14
Intermediate Down Tide (NTU):	129.62	107.16

- **Sheet Pile Wall Monitoring:** Weber was supposed to be on site today to monitor the sheet pile wall location as well as the rip rap elevation, but their vehicle broke down on their

way from Sparta, NJ. They are scheduled to be on site Monday (5/16/16) to complete the work. Only one survey of the wall was completed this week, and there was no survey of rip rap elevation.

- **Deviations from the Design Plans/ Specifications:** During rip rap placement, CEI is supposed to have Weber on site every other day to monitor the rip rap elevation according to Submittal #9. Environ and CEI will be exploring changing this requirement to twice per week.
- **Work planned to be conducted Monday:** CEI will continue rip rap placement throughout Zone 2. CEI will also be receiving an additional 64 Reese Mats (Timber Road) to prepare for the crane that will be arriving later in the week. Weber is scheduled to be on site tomorrow to monitor the sheet pile wall location and rip rap elevation.
- **Other Site Events:** N/A

From: Apakian, Mary

Sent: Friday, May 13, 2016 10:59 AM

To: Geiger.william@Epa.gov

Cc: Bond, Christopher D.

Subject: Metal Bank Oversight Summary - May 12, 2016

Hi Will.

Below the summary of OS activities conducted by CDM Smith's Chris Bond on Thursday, May 12, 2016. Chris Bond will be out at the site tomorrow to oversee the continuation of the rip rap placement.

Please let me know if you have any questions.

Regards,

Mary Jo

Mary Jo Apakian | Project Manager | CDM Smith | 993 Old Eagle School Road, Suite 408 | Wayne, PA 19087 | Office: 610-263-2616 | Fax: 610-293-1920 | Mobile: 610-246-1832 | e-mail: apakianmj@cdmsmith.com

Date: May 12, 2016

Weather: Partly Cloudy, High of 75 degrees

Arrival/Departure Time: 700/1500

Tide: high 0708; Low 1433

CDM Smith Field Oversight: Christopher Bond

Other Personnel On Site:

- June Yeung – Ramboll Environ
- John Castellani – CEI
- Nicholas Steenhaut – Ramboll Environ

- **Rip Rap Placement:** CEI began placing rip rap starting in the western part of Zone 2. They completed approximately 25 linear feet starting from Target E and moving East towards Target D.

- **Turbidity Monitoring:** In the morning CEI performed an inspection of the turbidity curtain that was covers the perimeter of Phase 1. They repaired the curtain in all the areas they found to be lacking. In accordance with Submittal #11, Creamer performed turbidity monitoring only twice today as they were continuing placement in Zone 2. The readings are listed in the table below:

Time (hours):	0748	1130
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Up Tide (NTU) :	136.73	107.4
Down Tide (NTU):	127.2	101.45
Intermediate Up Tide (NTU):	146.5	87.6
Intermediate Down Tide (NTU):	131.62	94.68

- **Sheet Pile Wall Monitoring:** Weber was not on site to survey the wall location today.
- **Deviations from the Design Plans/ Specifications:** CEI had indicated on their submittal that the initial layer of rip rap would be placed at 1-2' from the bottom. Due to the exclusion zone, the excavator was unable to reach that low. The spotter is having the bucket drop the stone from approximately **5.5 feet** (corrected from yesterday's summary) below the top of the sheet pile wall.
- **Work planned to be conducted tomorrow:** CEI will continue rip rap placement throughout Zone 2. CEI is prepared to lay Reese mats (timber road) in the excavator area if wet conditions contribute to excessive disturbance in the area. Weber is scheduled to be on site tomorrow to monitor the sheet pile wall location and rip rap elevation.
- **Other Site Events:** Around 1320 yesterday (5/11/16) afternoon, the company that owned the truck that had the diesel leak in the staging area, The H&K Group, came on site and laid down Speedy Dry oil absorbent powder on the diesel fuel spill. The powder was then collected, stored, and sealed in a 5-gallon bucket located on the western side of the staging area against the abandoned building. As the fuel leak was on asphalt pavement and not bare soil as initially thought, Environ determined that this cleanup was sufficient and there was no further need to excavate the area. Disposal of the bucket containing used Speedy Dry will be coordinated by Environ in the near future.

From: Apakian, Mary

Sent: Thursday, May 12, 2016 7:44 AM

To: Geiger.william@Epa.gov

Cc: Bond, Christopher D. <bondcd@cdmsmith.com>

Subject: Metal Bank Oversight Summary - May 11, 2016

Hi Will.

Below the summary of OS activities conducted by CDM Smith's Chris Bond on Wednesday, May 11, 2016. Chris Bond will be out at the site today to oversee the continuation of the rip rap placement. Please note that there was a truck leaking some diesel fuel yesterday at the near the staging area. See Chris's write-up below. Apparently, it was cleaned up after Chris left the site yesterday (per Ramboll Environ's Daily Report.) Chris will confirm today while he is there today. Please let me know if you have any questions.

Regards,

Mary Jo

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Date: May 11, 2016

Weather: Mostly Cloudy, High of 69 degrees

Arrival/Departure Time: 700/1500

CDM Smith Field Oversight: Christopher Bond

Other Personnel On Site:

- June Yeung – Ramboll Environ
- John Castellani – CEI
- Will Geiger – U.S. EPA
- George Horvat - PECO

- **Tide:** High 615, Low 1324

- **Rip Rap Placement:** CEI began placing rip rap starting in the western part of Zone 2.

- **Turbidity Monitoring:** In the morning CEI performed an inspection of the turbidity curtain that covers the perimeter of Phase 1. They repaired the curtain in all the areas they found to be lacking. In accordance with Submittal #11, Creamer performed turbidity monitoring only every 2 hours. The readings are listed in the table below:

Time (hours):	800	1030	1255	1430
Up Tide (NTU) :	148.6	135.4	95.64	N/A*
Down Tide (NTU):	116.23	102.4	90.37	N/A*
Intermediate Up Tide (NTU):	142.37	139.6	N/A*	N/A*
Intermediate Down Tide (NTU):	129.14	122.4	N/A*	N/A*

-*- Not Available Due To Low Tide Conditions

- **Sheet Pile Wall Monitoring:** Weber was not on site to survey the wall location today. There is no update on the report with the baseline data collected May 10, 2016.

- **Deviations from the Design Plans/ Specifications:** CEI had indicated on their submittal that the initial layer of rip rap would be placed at 1-2' from the bottom. Due to the location of the exclusion zone, the excavator was unable to reach that low. The stone had to be placed from 1-2' below the top of the sheet pile wall.

- **Bathymetric Survey:** John Castellani indicated that the data from the bathymetric survey was sent to the surveyor at CEI. It is expected to be included in Environ's daily report submittal tomorrow morning.

- **Work planned to be conducted tomorrow:** CEI will continue rip rap placement throughout Zone 2.

- **Other Site Events:** Around 1300. a dump truck arrived at the site and had diesel fuel leaking from its fuel tank in the south east corner of the staging area. The load of rip rap was dumped from the truck in the staging area and the truck was towed. The area of the spill was immediately covered in absorbent pads (see Photos 045_051116_10 and 045_051116_11). Before the crew left at the end of the day, the area was covered in poly sheeting to prevent any possible run off. Environ has directed CEI to excavate the area and to stage and drum all material as soon as possible. They plan to take confirmatory samples of the area after the excavation to make sure the spill was captured.

From: Apakian, Mary

Sent: Wednesday, May 11, 2016 8:03 AM

To: Geiger.william@Epa.gov

Cc: Bond, Christopher D. <bondcd@cdmsmith.com>

Subject: Metal Bank Oversight Summary - May 10, 2016

Hi Will.

Below the summary of OS activities conducted by CDM Smith's Chris Bond on Tuesday, May 10, 2016. Chris Bond will be out at the site today to oversee the continuation of the rip rap placement. Are you planning to visit today?

Please let me know if you have any questions.

Regards,

Mary Jo

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Date: May 10, 2016

Weather: Periodic Light Rain, Overcast, High of 59 degrees

Arrival/Departure Time: 700/1505

CDM Smith Field Oversight: Christopher Bond

- Other Personnel Onsite:
 - June Yeung – Ramboll Environ
 - John Castellani – CEI
- Turbidity Monitoring: At 0800 hours, CEI performed an inspection of the turbidity curtain that was placed around the perimeter of Zone 1 yesterday. In addition, any deficiencies in the curtain placement were repaired. CEI performed the initial turbidity monitoring in 4 locations along the curtain at 0800 hours. A second round of monitoring (prior to the placement of rip rap) was collected at 1130 hours; the monitoring results were less than the initial results collected at 0800 hours. After two (2) hours of rip rap placement, the turbidity was monitored again (1400 hours). The results are listed in the table below. Chris will confirm turbidity monitoring locations with CEI tomorrow.

Time (hours):	0800	1130	1400
Up Tide (NTU) :	331.19	281.7	238.5
Down Tide (NTU):	281.6	231.4	196.27
Intermediate Up Tide (NTU):	397.26	276.50	182.6
Intermediate Down Tide (NTU):	363.4	190.73	N/A – Low Tide Prevented Access

- Rip Rap Placement: Beginning at 1200 (noon) during low tide, CEI began placing rip rap in the western part of Zone 1.
 - Sheet Pile Wall Monitoring: CEI reports that the baseline data collected yesterday by Weber is expected to arrive tomorrow.
 - Deviations from the Design Plans/ Specifications: CEI had indicated on their submittal that they would be marking the arm of the excavator or crane to aid the operator in knowing the location of the bucket during rip rap placement, instead they utilized a spotter at the edge of the sheet pile wall to direct the excavator operator. Also, instead of a clam shell bucket, CEI is using an extra wide excavator bucket for placement of the rip rap.
 - Bathymetric Survey: John Castellani indicated that the data from the bathymetric survey was sent to the surveyor at CEI, and that he expects the data package to be delivered tomorrow.
 - Work planned to be conducted tomorrow: CEI will continue rip rap placement throughout Zone 1.
-

From: Apakian, Mary

Sent: Monday, May 09, 2016 5:38 PM

To: Geiger.william@Epa.gov

Cc: Bond, Christopher D. <bondcd@cdmsmith.com>

Subject: Metal Bank Oversight Summary - May 9, 2016 - Part 1 of 3

Hi Will.

Attached is the summary of OS activities conducted by CDM Smith's Chris Bond today. Chris Bond will be out at the site tomorrow am to oversee the start of the rip rap placement. Aqua Survey completed the bathymetric survey this afternoon and June Yeung, Ramboll Environ, reported that results will be available for use tomorrow. I am sending the photos in two separate emails since they are large.

Please let me know if you have any questions.

Regards,

Mary Jo

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Date: May 9, 2016

Weather: Sunny, High of 70 degrees

Arrival/Departure Time: 700/1500

CDM Smith Field Oversight: Christopher Bond

- Other Personnel Onsite:
 - June Yeung – Ramboll Environ
 - John Castellani – CEI
 - Gary Kowalski – CEI
 - Donald Weiss – Weber
 - Eric Babcock – Weber
- Activities that occurred last week: June Yeung, Ramboll Environ, reported that during the week of May 2, 2016, CEI laid out the timber road (Reese Mats), installed the site trailer, and laid out two (2) 6" crushed stone pads for the rip rap stockpiles while Aqua Survey performed the bathymetric survey. See Pictures: 045_050916_01, 045_050916_03, 045_050916_05, and 045_050916_07.
- Bathymetric Survey: On Thursday, May 5, 2016, Aqua Survey conducted a bathymetric survey of all three zones where rip rap is to be placed along the sheet pile wall located in the Southern Area of the Metal Bank Site (the Site). This morning, Aqua Survey reported that the survey results were unusable. Aqua Survey returned to the site this afternoon and completed the survey.
- Turbidity Monitoring: CEI placed the turbidity curtain along the perimeter of Zone 1. No turbidity monitoring occurred as no rip rap was placed today.
- Sheet Pile Wall Monitoring: Weber was onsite performing the baseline survey of the sheet pile wall. The survey included the installation of eighteen (18) survey targets along to the length of the wall that will be used to monitor any future wall movement.
- Deviations from the Design Plans/ Specifications: The surveying targets that were installed were not the triangular prisms indicated within Submittal 9. A picture (045_050916_08) showing both the new installed targets (left) and the prism listed in the spec sheet (right) is attached.

- Work planned to be conducted tomorrow: Once CEI receives usable bathymetric survey data from Aqua Survey, they will begin placing rip rap within Zone1.